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Objectives

- Hear why projects should only be launched at a rate that can be handled by the organizational system
- Understand the value of periodic measurement of project status and performance
- Develop critical parameters for evaluation



Agenda

- 1. What is Project Portfolio Management (PPM)?
- The Context of PPM
- 3. What are Constraints?
- 4. Managing Constraints in the PPM Process
- 5. Critical Success Factors for Managing Constraints

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1. What is PPM?



Project Definition

From PPM Point of View:



"A composite of resource investments such as skilled labor and associated salaries"



What is Project Portfolio Management?

'Portfolio Management' is a technique for:

"[t]he centralized management of one or more portfolios, which includes identifying, prioritizing, authoriziing, managing, and controlling projects, programs, and other related work, to achieve specific strategic business objectives."





PPM Objectives

- Translate strategic goals into tangible criteria to select programs/projects that create value for the enterprise
- Select and prioritize projects for competitive advantage
- Perform regular project reviews
- "Unfund" bleeder projects and those no longer strategically aligned

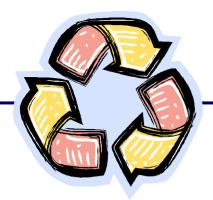




Portfolio Planning Team

- The Executive Team or a subset thereof
- Decisions from strategic planning become the factors for selecting projects
- Decisions for project investments no longer made within the functional silos
- Investment decisions made collaboratively, with the *total* enterprise in mind





2. The Context of PPM



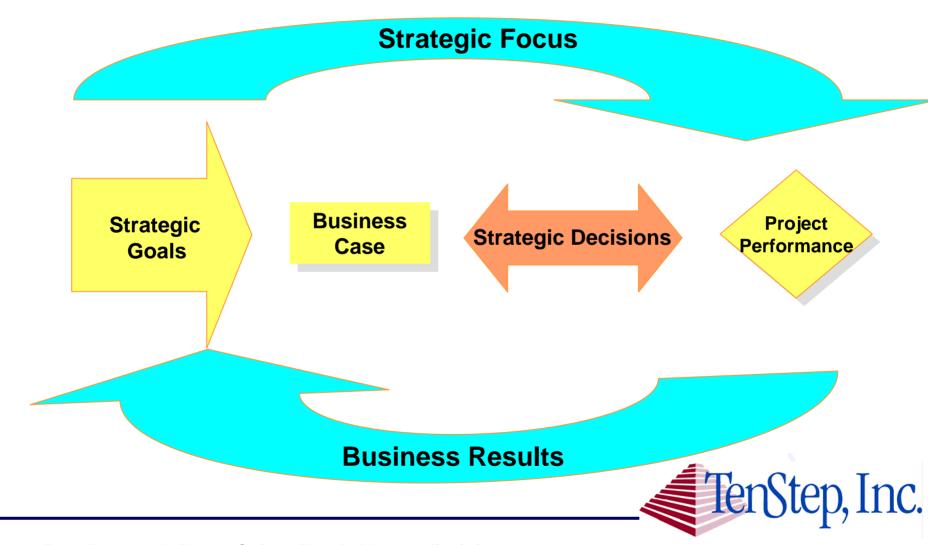


The Context of PPM





The View at 90,000 Feet



Strategic Planning

- Focuses on the reason that the organization exists
- Defines the vision, mission, guiding principles, values, objectives and success measures of the organization
- Provides the foundation to manage the organization's investments (projects)
- Measures organizational performance against the strategic plan



Strategic Planning Steps

- Vision
- Mission
- Guiding Principles and Values
- Strategy to Implement Vision
- Performance Measures for the Enterprise





Portfolio Planning

Project Selection Goals

- Value Maximization
- Balance
- Strategic Alignment





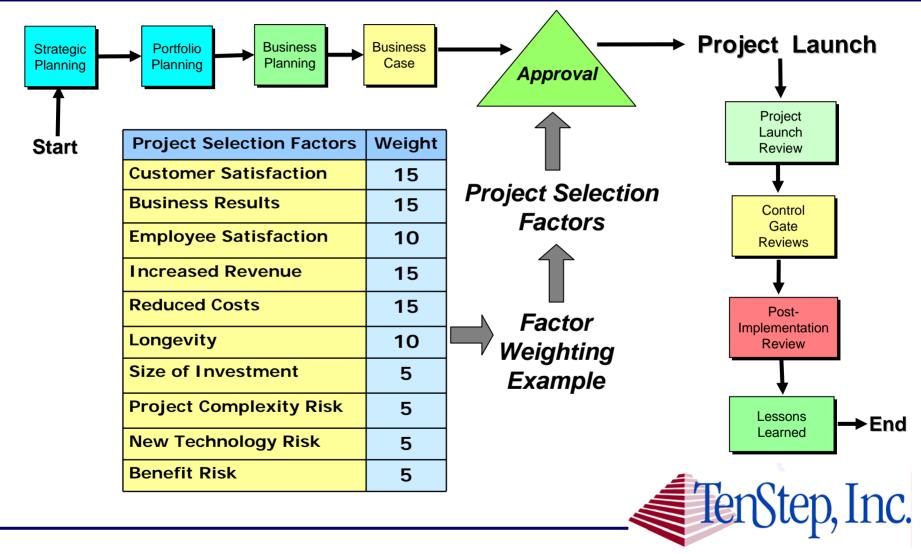
Project Selection Components

- Opportunity Analysis
- Project Prioritization
- Prioritization Decision Support Tools



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Portfolio Management Process



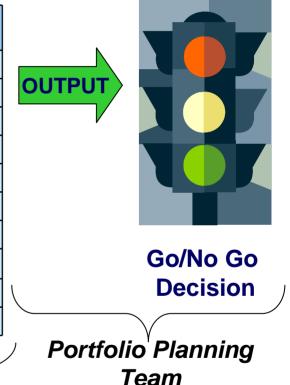
Project Selection

Assessment of Project's Strategic Fit



Project Charter
Includes Business Case
and analysis of strategic fit

Project Selection Factors	Score
	(1-5)
Customer Satisfaction	5
Business Results	5
Employee Satisfaction	3
Increased Revenue	4
Reduced Costs	4
Longevity	5
Size of Investment	3
Project Complexity Risk	3
New Technology Risk	4
Benefit Risk	4



Project Manager

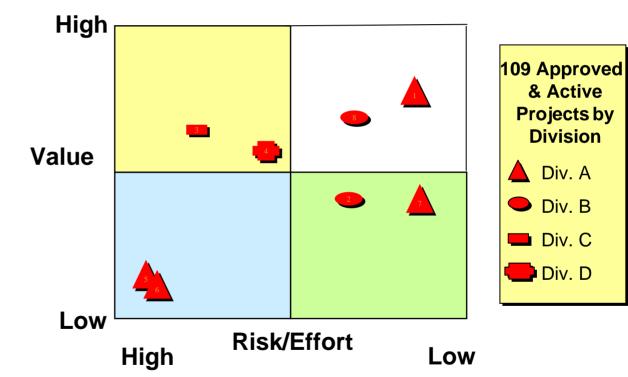


Typical PPM Outputs/Tools

Portfolio Map

Top Ten Projects

- 1. Project A
- 2. Project B
- 3. Project C
- 4. Project D
- 5. Project E
- 6. Project F
- 7. Project G
- 8. Project H
- 9. Project I
- 10. Project J





Results

- Strategically-balanced project investments
- Targeted and controlled resource management
- Executive program control
- Business results achieved
- Strategies attained





3. What are Constraints?



PMBOK Definition of Constraint

"An applicable restriction or limitation, either internal or external to the project, that will affect the performance of the project or a process."

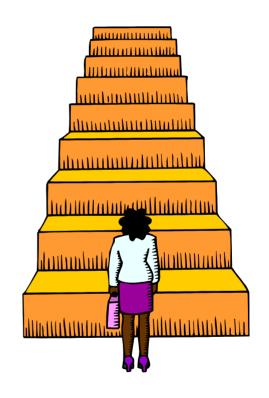


- PMBOK Guide®, Third Edition, 2004, p. 355.



Types of Constraints

- Process
- Physical
- Cultural
- Organizational
- Project specific





Process Constraints

- Poorly defined strategic objectives
- Poor business planning lack of solid business cases for potential projects
- Lack of cross-enterprise view
- Unknown project inventory
- Lack of understanding of existing resource commitments
- Lack of supporting processes

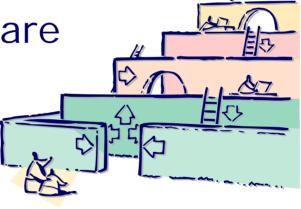


Physical Constraints

- Infrastructure
- Availability vs. project timeframes

- Computer hardware

-Other materiel



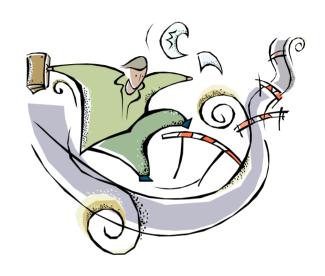
Cultural Constraints

- Democracy isn't easy
 - Removes power from business leaders who are used to calling the shots
- It's hard to make difficult decisions
 - Which projects to undertake
 - Which to cancel
- Any new process will be resisted



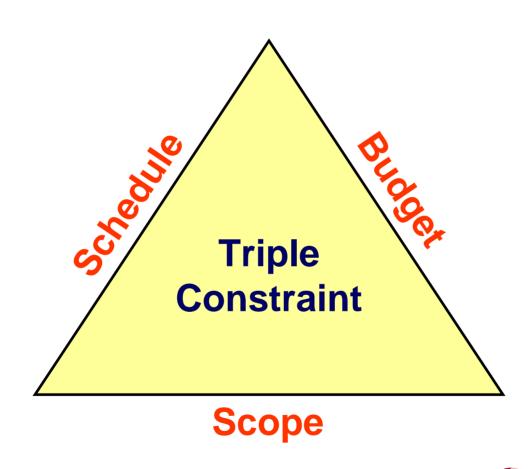
Organizational Constraints

- Resources
 - -Skills
 - Availability
- Risk
 - Organizational tolerance





Project-Specific Constraints







4. Managing Constraints in the PPM Process



Issue:

Poorly-defined strategic objectives

Solution:

 Clarify organizational strategy with Executive Team

Issues:

- Poor business planning
- Lack of solid business cases for potential projects

Solutions:

- Require business case preparation
- Train staff on developing them



Issues:

- Lack of cross-enterprise view
- Unknown project inventory
- Lack of understanding of existing resource commitments

Solutions:

- Launch an effort to identify all current projects and their assigned staff
- Define an ongoing function to keep the information up to date

Issue:

Lack of support processes

Solution:

- Define a 'cradle-to-grave' process to support PPM
- Identify needed support functions, roles, and responsibilities
- Staff the process accordingly

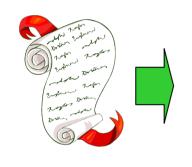




- Project Selection:
 - Require business cases as input
 - Evaluate constraints in business cases and project selection decisions



Additional Elements for Project Selection



Project Charter

STRATEGIC GOALS	(1-5)
Customer Satisfaction	5
Business Results	5
Employee Satisfaction	3
Increased Revenue	4
Reduced Costs	4
Longevity	5
Size of Investment	5
Project Complexity Risk	5
New Technology Risk	5
Benefit Risk	4

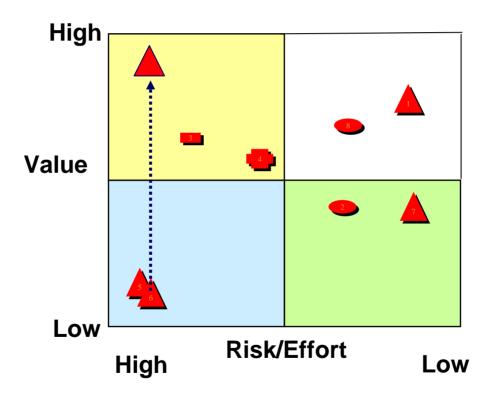


CONSTRAINTS	Score
	(1-5)
Resource Capacity	2
Risk Tolerance	4
Cultural Issues	3
Infrastructure	4
Rigor of Business Case	4
Materiel Availability	5
Triple Constraint	5



Reevaluate Project's Placement in Portfolio

Portfolio Map





Managing Physical Constraints

Issue:

 Projects with infrastructure needs that are not part of the enterprise architecture

Solution:

- Assess cost of making the required changes in the business case
- Only accept projects whose infrastructure aligns with the enterprise's infrastructure

Managing Physical Constraints

Issue:

 Hard resources are not available as needed by the project

Solution:

- Find alternative solution
- Postpone project start until reso available



Managing Cultural Constraints

Issue:

New processes are always resisted

Solution:

Use a change management approach to deploy PPM

- Education
- Persuasion
- Accountability structure



Managing Organizational Constraints

Issue:

 Resources with the necessary skill sets are not available in the project time frame

Solution:

- Hire (staff or contract)
- Train existing staff
- Postpone the project until resources are available



Managing Organizational Constraints

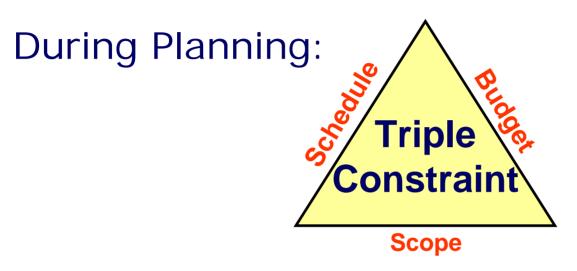
Issue:

 Building a portfolio with an acceptable level of organizational risk

Solution:

- Understand how much risk the organization can tolerate

Managing Project-Specific Constraints



- Address constraints as part of Scope Definition,
 Cost Estimating, Scheduling and Risk Management
- Communicate clearly about constraints
- Enlist support of Project Sponsor to navigate constraints

Managing Project-Specific Constraints

During Execution, Monitoring, & Control

- Sponsor Steering Committee Reviews
- Control Gate Reviews
- Portfolio Reviews
- Ongoing Post-Implementation Reviews





Sponsor Steering Committee Reviews

- Monthly Project Reviews with Project Sponsor and Team Leaders to:
 - Review Last Month Progress
 - Review Next Month Plans
 - Manage Issues
 - Manage Scope Changes
 - Balance customer
 objectives with enterprise's
 strategic objectives

- Remove Barriers
- Manage Major Risks
- Approve Approach for next month
- Reanalyze Constraints and their impacts



Control Gate Reviews

- Periodic Portfolio Management Team Reviews Projects/Programs at Key Milestones to:
 - Review estimates to complete
 - Revisit competitive situation
 - Re-affirm business benefits
 - Reanalyze constraints and their impacts
 - Review scope change decisions
 - Update Project Selection Score to identify 'drift' from enterprise's strategic objectives
 - Approve level of risk
 - Make incremental investments, if appropriate



Portfolio Reviews

- Review/adjust project selection factors as strategies and constraints change
- Review Portfolio Maps
- Adjust Portfolio to optimize performance
- Revisit/cancel programs and projects that are not delivering value

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Ongoing Post-Implementation Reviews

- Track project value add vs. cost
- Determine if project selection and prioritization was on target
- Learn from project experience
- Find underlying causes of problems
- Make suggestions to correct them
- Minimize problems on future projects
- Use each project as a learning opportunity
- Watch for 'drift' from customer and strategic objectives
- Continuously reanalyze constraints and modify plan accordingly





5. Critical Success Factors for Managing Constraints



Critical Success Factors for Managing Constraints

- Presence of:
 - Strategic objectives
 - Decision criteria
- Solid business cases for all opportunities
- Ongoing tracking of:
 - Project inventory
 - Resource capacity
 - Project performance
- Rigorous project management practices

- Ongoing project reviews
- Willingness to make tough decisions
- Change management approach to PPM implementation



Future Directions of PPM & PM

- Enterprise policy, methodology, & tools
- PMO/EPMO establishment
- Project management maturity
- Maturity assessments
- Intensive training
 - Portfolio Management
 - Balanced Scorecard
 - Project Management
 - Team Leadership
 - Team Performance
 - Virtual Teams

- Professional PM career track
- Facilitated project Quickstarts
- Structured team-based planning
- Mentoring
- Executive coaching
- Consistency
- Accountability

